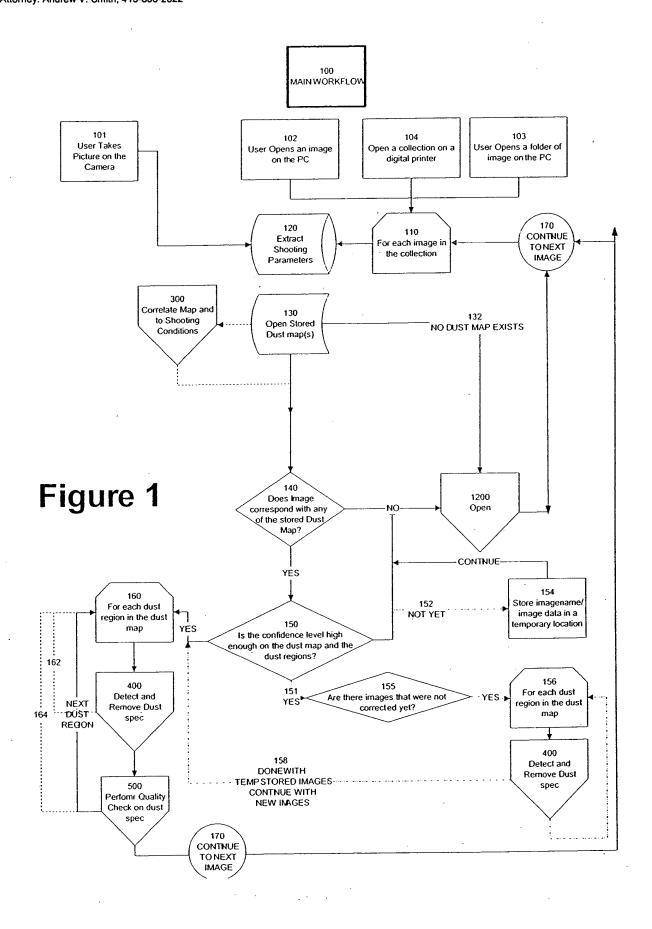
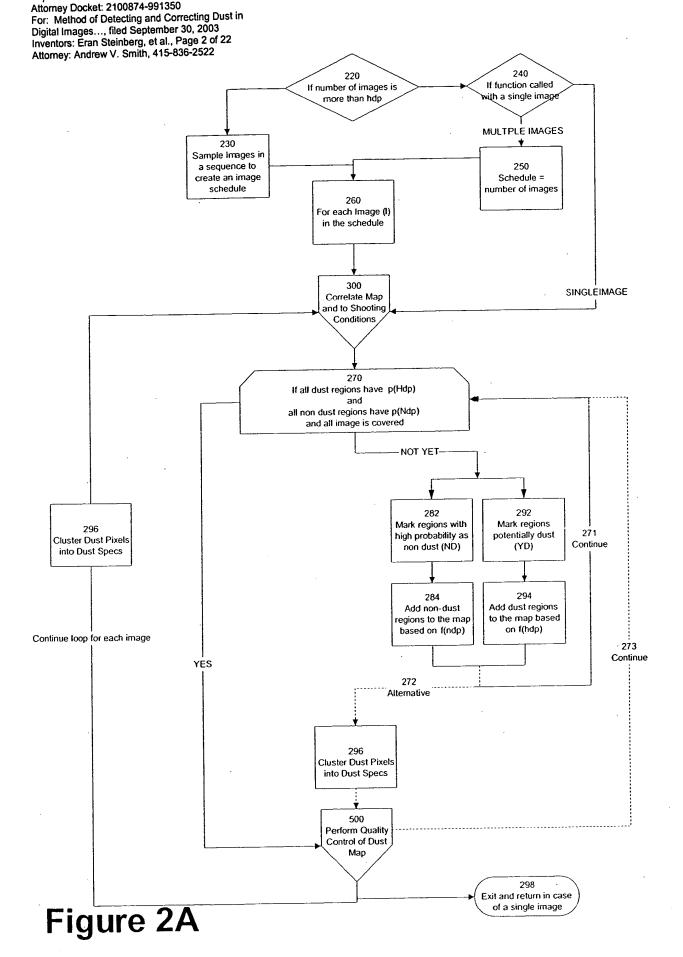
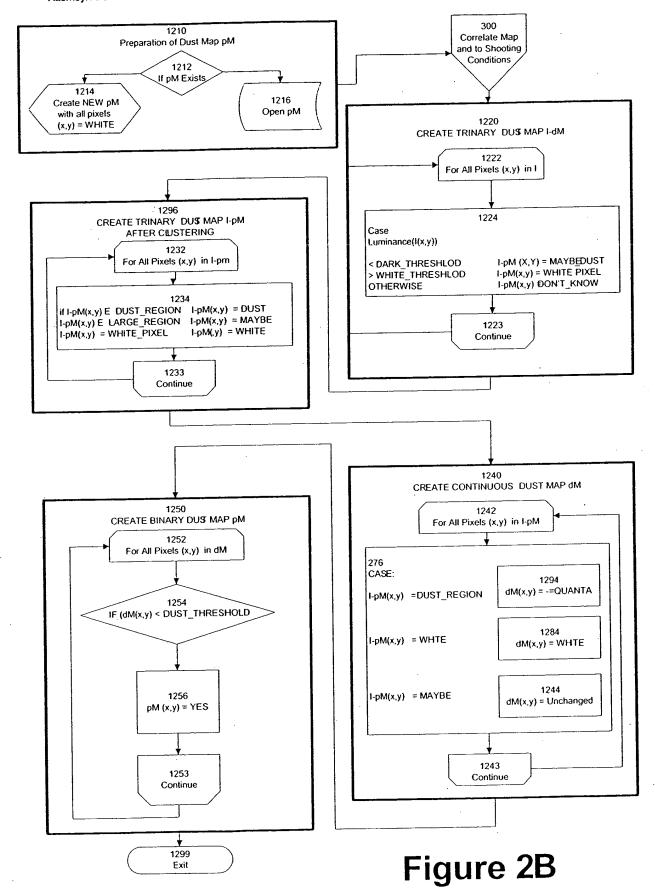
Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 1 of 22 Attorney: Andrew V. Smith, 415-836-2522

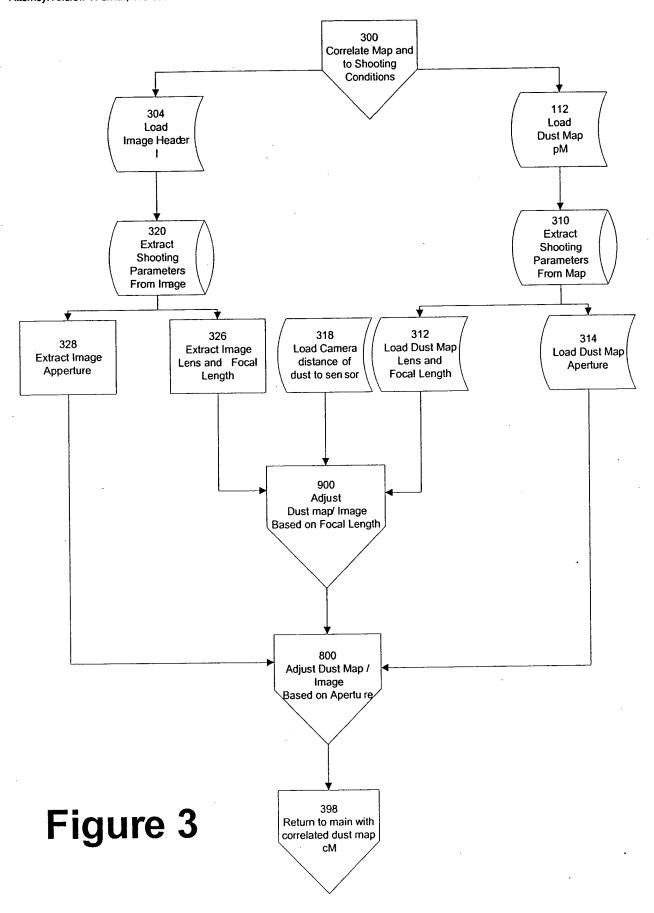




Attorney Docket. 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 3 of 22
Attorney: Andrew V. Smith, 415-836-2522

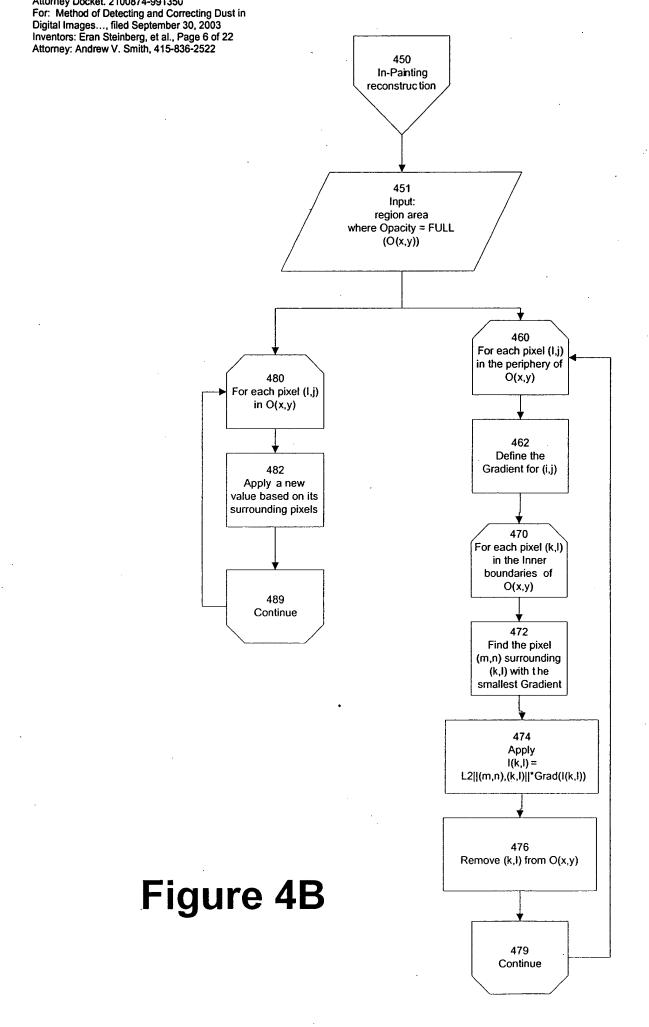


Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 4 of 22
Attorney: Andrew V. Smith, 415-836-2522

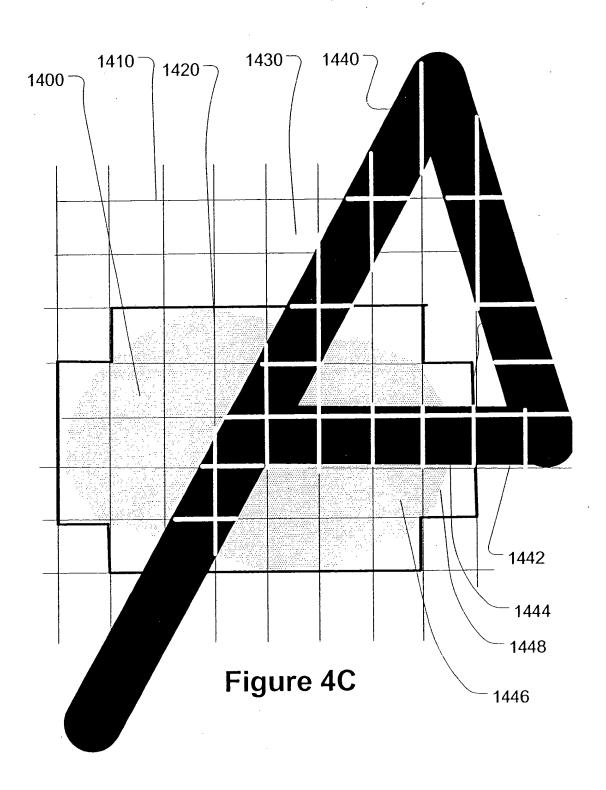


Attorney Docket. 2100874-991350 For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 5 of 22 Attorney: Andrew V. Smith, 415-836-2522 400 402 Detect and 404 Load Remove Dust Load **Dust Map** spec Image сМ 410 For Each Dust Spec in cM 500 Perform Quality 420 Control for a For Each Pixel single Pixel where OPACITY < FULL 430 432 Enhance image I'(x,y) = I(x,y)/degradation **OPACTY** Continue loop for each **Dust Spec** Continue 451 For region area where Opacity = FULL (O(x,y))End of aperture correction In-Painting reconstruction 500 Perform Quality Control for a single Pixel

Figure 4A



Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 7 of 22
Attorney: Andrew V. Smith, 415-836-2522



Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 8 of 22 Attorney: Andrew V. Smith, 415-836-2522

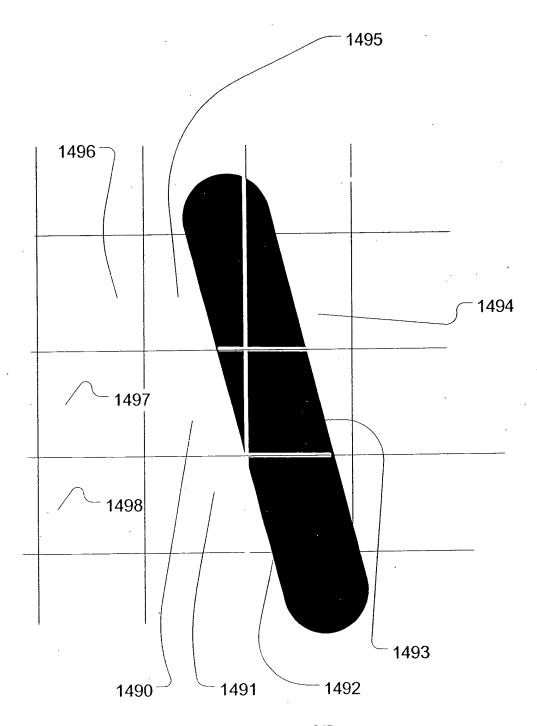


Figure 4D

Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 9 of 22 Attorney: Andrew V. Smith, 415-836-2522

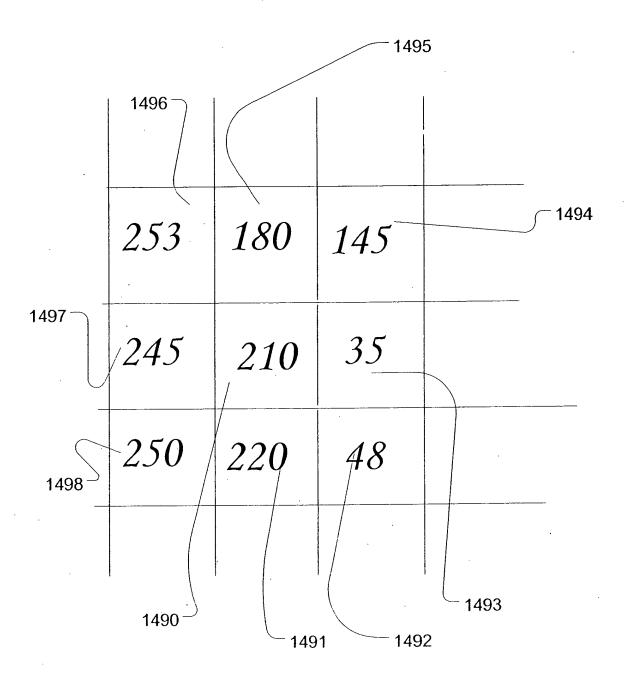


Figure 4E

Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 10 of 22 Attorney: Andrew V. Smith, 415-836-2522

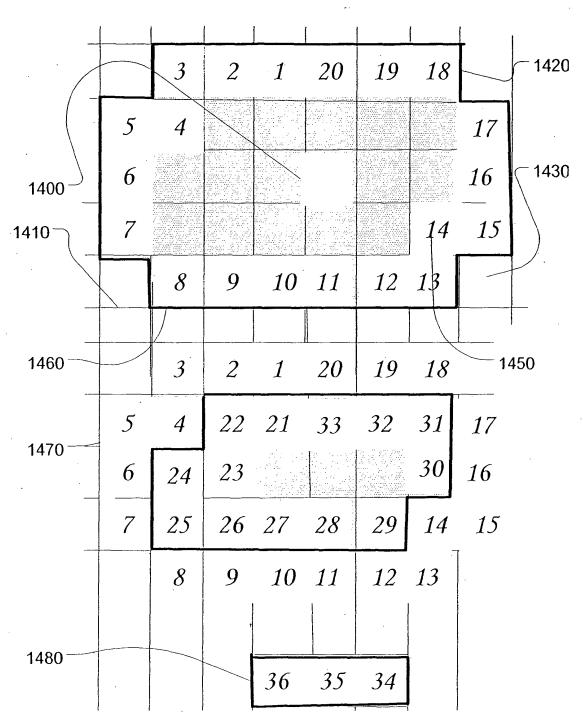


Figure 4F

Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 11 of 22 Attorney: Andrew V. Smith, 415-836-2522

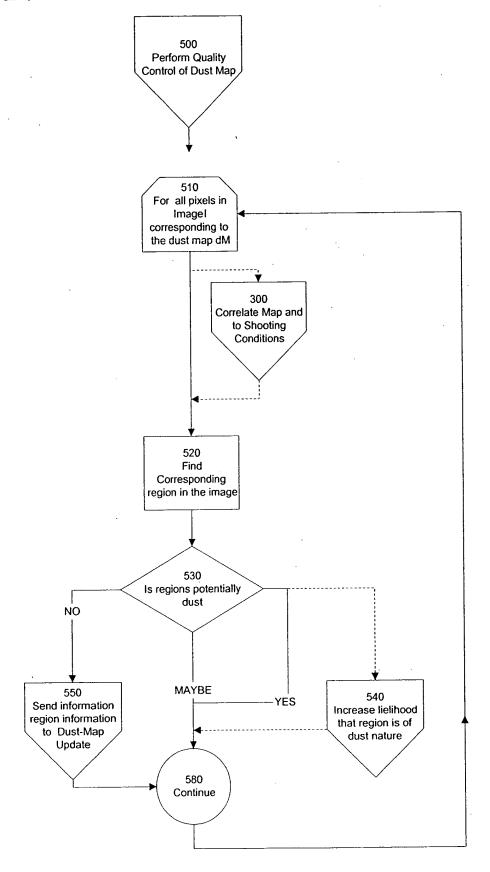
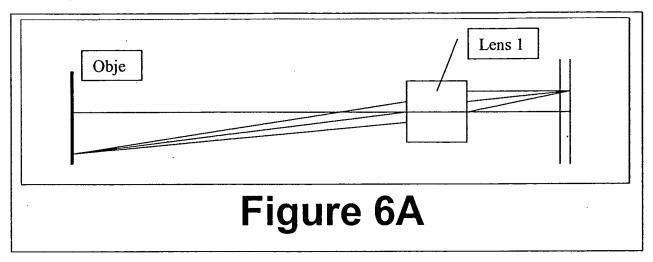
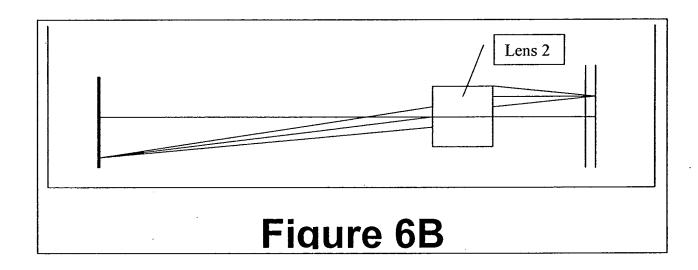
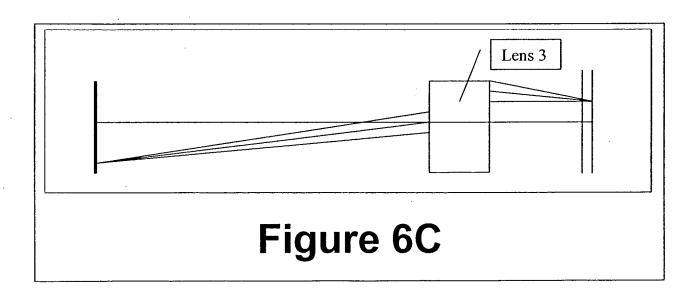


Figure 5

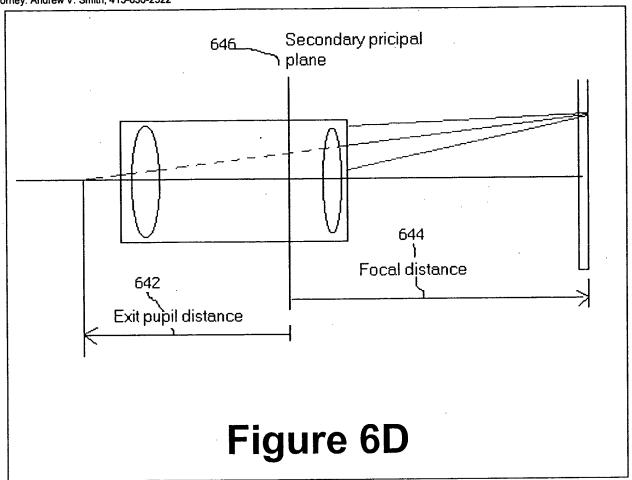
Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 12 of 22
Attorney: Andrew V. Smith, 415-836-2522

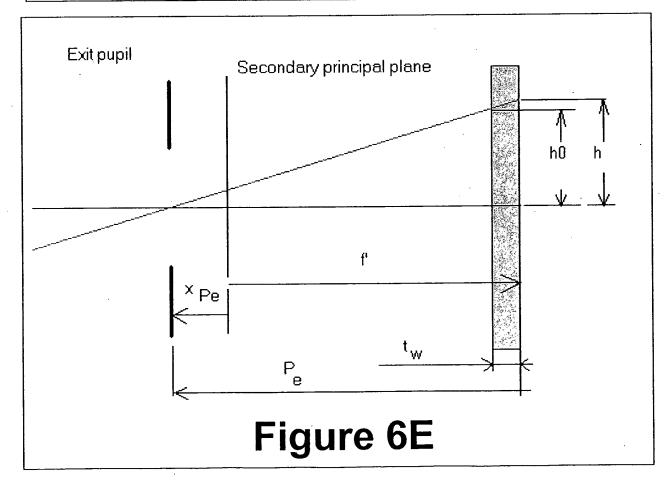




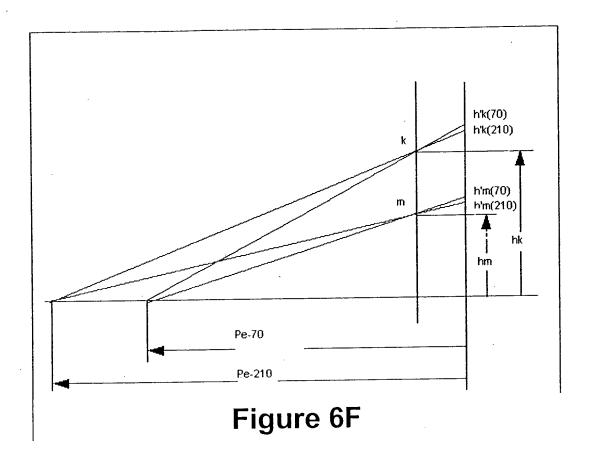


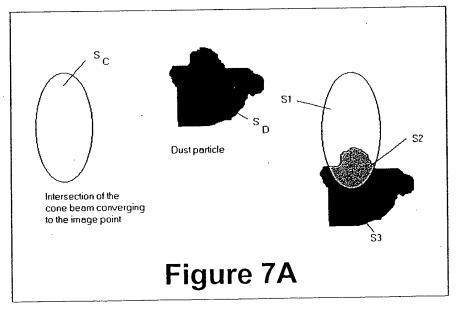
Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 13 of 22 Attorney: Andrew V. Smith, 415-836-2522



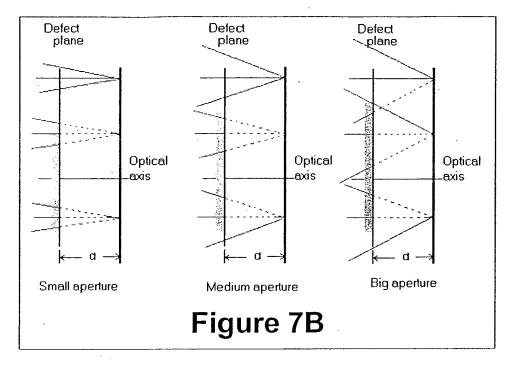


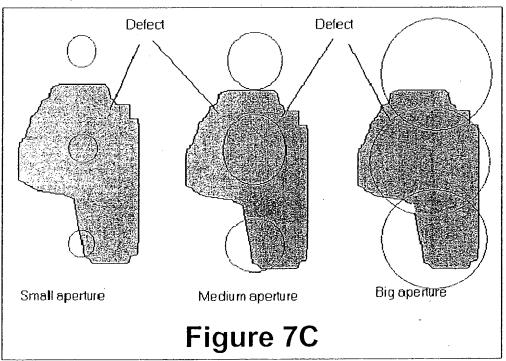
Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 14 of 22
Attorney: Andrew V. Smith, 415-836-2522



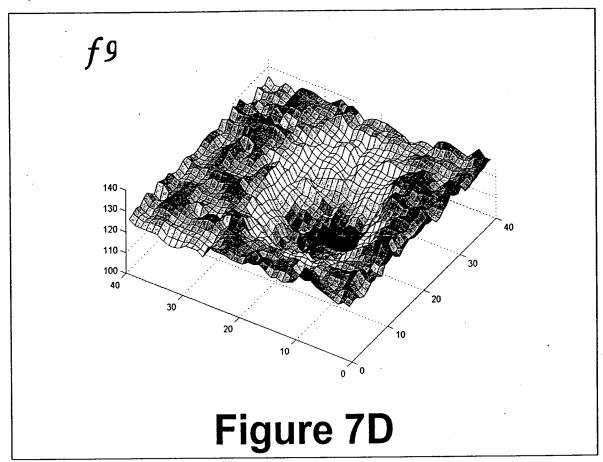


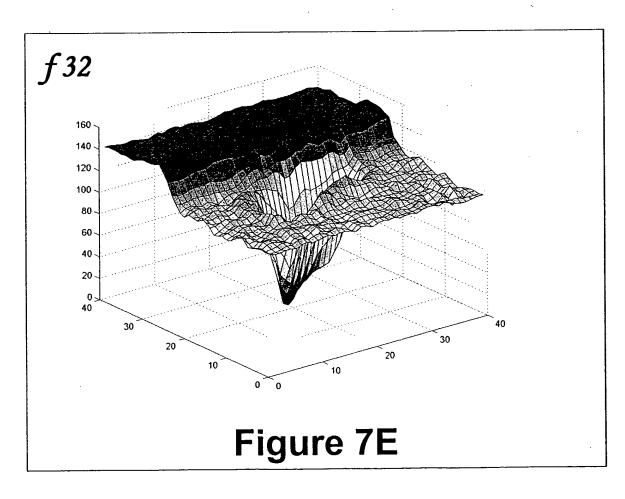
Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 15 of 22
Attorney: Andrew V. Smith, 415-836-2522



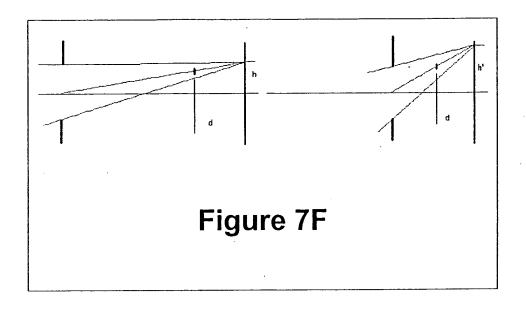


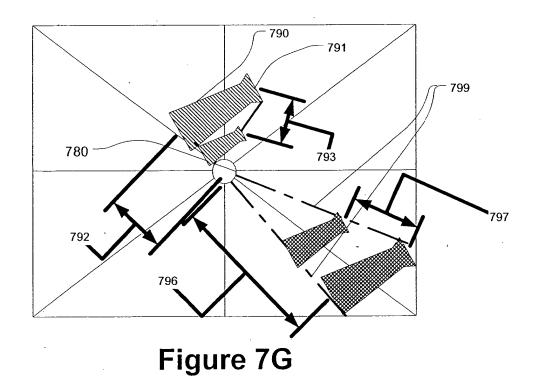
Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 16 of 22 Attorney: Andrew V. Smith, 415-836-2522



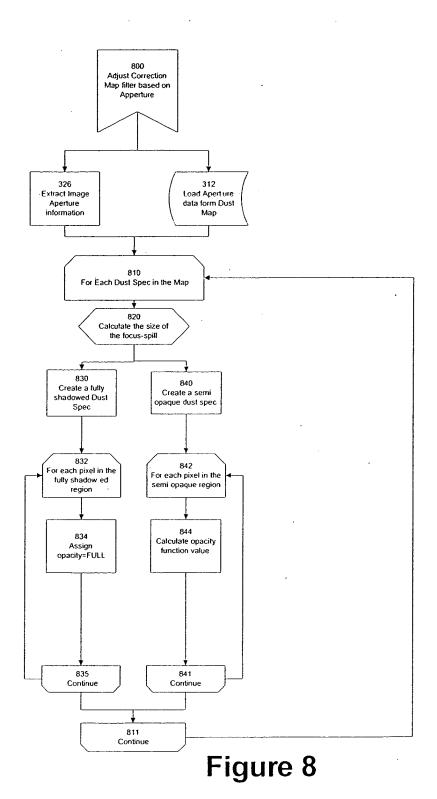


Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003
Inventors: Eran Steinberg, et al., Page 17 of 22
Attorney: Andrew V. Smith, 415-836-2522





Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 18 of 22 Attorney: Andrew V. Smith, 415-836-2522



Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 19 of 22 Attorney: Andrew V. Smith, 415-836-2522

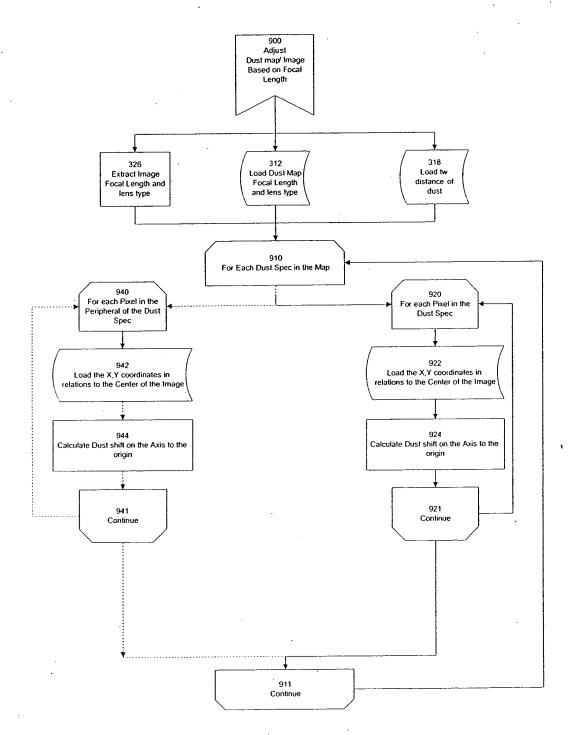


Figure 9

Attorney Docket: 2100874-991350
For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 20 of 22 Attorney: Andrew V. Smith, 415-836-2522

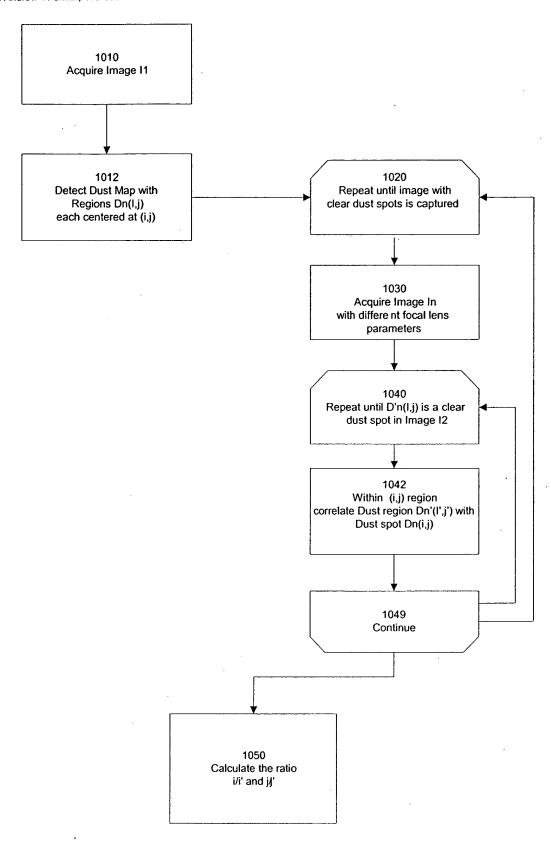
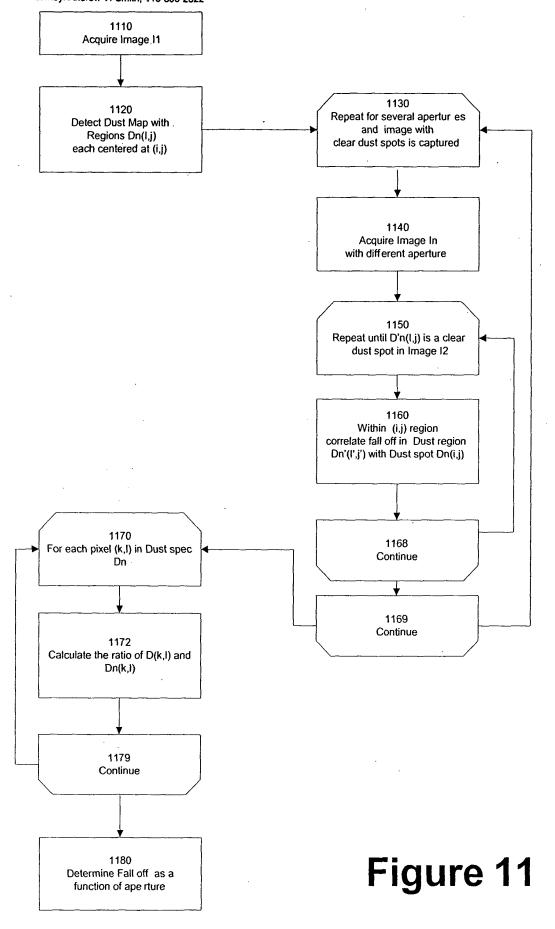


Figure 10

For: Method of Detecting and Correcting Dust in Digital Images..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 21 of 22 Attorney: Andrew V. Smith, 415-836-2522



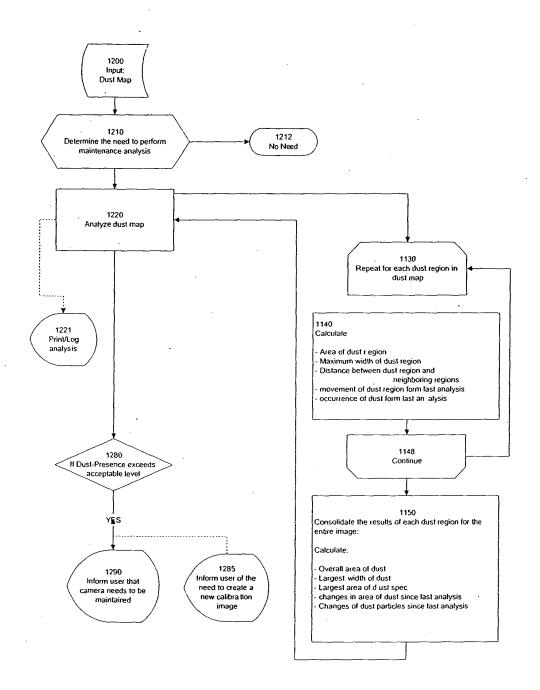


Figure 12